Javier V. Gómez, M.Sc.

Robotics and Artificial Intelligence R&D

| | Highlights |
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| | Ph.D. student focusing on robotics and artificial intelligence. |
| | Visiting Student Researcher at Stanford University. |
| | - Bachelor's GPA: 3.14, Master's GPA: 3.98 (best academic record award). |
| | - Collaborated with many researchers all around the world: Portugal, Norwa |
| | Germany, Greece, U.S., United Arab Emitares, etc. |
| | |
| | - Technology and science lover. |
| | - Promoter and participant of Open and Free Source Software projects. |
| | - Looking for opportunities to create a develop new technologies. |
| | Current Occupation |
| Position held | Research assistant, Ph.D. candidate, advisor: Prof. Luis Moreno. |
| Start date | June 2011 |
| Main activities | Path planning, meta-heuristic optimization and environment modelling research. |
| Institution - Employer | RoboticsLab, Carlos III University of Madrid. Avda. de la Universidad 30, 28911, Leganés. Madr |
| . , | Spain. |
| Sector | Academic research |
| Notes | FPU scholarship holder from September 2014 (Spanish government scholarship for PhD studer |
| | given to excellent academic records) |
| | Work Experience |
| Position held | Visiting Student Researcher, advisor: Dr. Marco Pavone. |
| Dates | September 2014 – December 2014 |
| Main activities | Research and development of sampling-based path planning techniques. |
| Institution | Autonomous Systems Laboratory, Aeronautics - Astronautics Dept. Stanford University, CA, US |
| Sector | Academic research |
| Position held | Free and Open Source Software Developer, mentors: loan Sucan, Mark Moll |
| Dates | June 2014 – August 2014 |
| Main activities | Develop a C++ multi-threaded algorithm to boost optimal path planning algorithms |
| | (CForest). |
| | Study the implementation of optimal path planning algorithms taking into account kinemat |
| | contraints. |
| Institution | Open Motion Planning Library (OMPL) – Google Summer of Code 2014 |
| Sector | Open source oftware development. |
| B | |
| Dogition hold | Invited December Accident addam De Mileter Medile |
| Position held | Invited Research Assistant, advisor: Dr. Nikolaos Mavridis. |
| Dates | March 2013 – July 2013 |
| Dates Main activities | March 2013 – July 2013 Research and development of advanced path planning techniques. |
| Dates Main activities Institution | March 2013 – July 2013 Research and development of advanced path planning techniques. RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece. |
| Dates Main activities | March 2013 – July 2013 Research and development of advanced path planning techniques. |
| Dates Main activities Institution Sector | March 2013 – July 2013 Research and development of advanced path planning techniques. RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece. Academic research |
| Dates Main activities Institution Sector Position held | March 2013 – July 2013 Research and development of advanced path planning techniques. RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece. Academic research Type Approval Technician |
| Dates Main activities Institution Sector Position held Dates | March 2013 – July 2013 Research and development of advanced path planning techniques. RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece. Academic research Type Approval Technician December 2007 – August 2010. |
| Dates Main activities Institution Sector Position held | March 2013 – July 2013 Research and development of advanced path planning techniques. RoboSKEL / IRML group, NCSR Demokritos, Athens, Greece. Academic research Type Approval Technician |

| | Academic Education |
|---|--|
| Degree | Master program in Robotics and Automation. Avg. Score: 9.7 over 10 Best academic record award. |
| Dates | September 2011 – November 2012 |
| Principal subjects covered | - Wide knowledge of robotics fields. |
| | - Introduction to research into robotics. |
| Institution | - Artificial intelligence, control, mobile robots, humanoids, optimization, computer vision, etc. Carlos III University of Madrid, Avda. De la Universidad 30, 28911, Leganés, Madrid. Spain. |
| montation | Outloo III Offivoroity of Madrid, Avad. Do la Offivoroidad do, 20011, Logarido, Madrid. Opairi. |
| Degree | Bachelor's Final Project: Intelligent outdoor light sampling strategy to geolocate stationar |
| Dates | objects. Advisor: Prof. Frode Eika Sandness September 2010 – December 2010 |
| Topic and environment | Design and implement a intelligent system capable of geolocate itself by sampling sunlight |
| | intensity. |
| | - Erasmus scholarship. |
| | - International and multidisciplinary teamwork subjects. |
| Institution | English language. Oslo and Akershus University College of Applied Sciences.P.O. Box 4 St. Olavs plass, N0130 |
| เทอแนนบท | Oslo, Norway. |
| Additional information | I continued this project after the Erasmus program. This led to a publication in a top scientific |
| | journal. |
| Degree | Electronics and Automation Egineer. Avg Score 7.57 over 10 (Top 10%) |
| Dates | September 2007 – June 2010 |
| Principal subjects covered | - Electronics. |
| | - Automation and control. |
| | - Software engineering. |
| | - Robotics. |
| | - Rusings and production |
| Institution | Business and production. Polytechnic University of Madrid, 3, Ronda de Valencia, 28012, Madrid, Spain. Polytechnic University of Madrid, 3, Ronda de Valencia, 28012, Madrid, Spain. |
| Institution | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. |
| Institution | |
| Mother tongue | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish |
| Mother tongue Other languages | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English |
| Mother tongue Other languages Self-assessment | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Writing |
| Mother tongue Other languages | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction Spoken production |
| Mother tongue Other languages Self-assessment | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C1 Proeficient user |
| Mother tongue Other languages Self-assessment | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction Spoken production |
| Mother tongue Other languages Self-assessment European Level (*) | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Common European Framework of Reference for Languages - Team worker. |
| Mother tongue Other languages Self-assessment European Level (*) | Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user (*) Common European Framework of Reference for Languages - Team worker Easy going. |
| Mother tongue Other languages Self-assessment European Level (*) | Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience |
| Mother tongue Other languages Self-assessment European Level (*) | Personal Skills and Competences Spanish English Understanting Listening Reading B2 Independent user C1 Proeficient user B2 Independent user B2 Independent user C1 Proeficient user C2 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Proeficient user C9 P |
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| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C*) Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Proeficient user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and | Personal Skills and Competences Spanish English Understanting Speaking Listening Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences | Polytechnic University of Madrid. 3, Ronda de Valencia, 28012. Madrid, Spain. Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences Computer skills and | Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions Fast and self-learning. - Good command of MS Office, LibreOffice, LaTeX and BibTex tools Good command of AutoCAD and OpenSCAD. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences | Personal Skills and Competences Spanish English Understanting Speaking Writing Listening Reading Spoken interaction Spoken production B2 Independent user C1 Proeficient user B2 Independent user B2 Independent user C1 Proeficient user (*) Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions Fast and self-learning. - Good command of MS Office, LibreOffice, LaTeX and BibTex tools Good command of AutoCAD and OpenSCAD Advanced programming skills in C/C++ and C++11. Beginner in CUDA. |
| Mother tongue Other languages Self-assessment European Level (*) Social skills and competences Organisational skills and competences Technical skills and competences Computer skills and | Personal Skills and Competences Spanish English Understanting Reading Spoken interaction B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user B2 Independent user C1 Proeficient user C3 Proeficient user C4 Proeficient user C5 Proeficient user C6 Proeficient user C7 Proeficient user C8 Independent user C9 Common European Framework of Reference for Languages - Team worker Easy going Good ability to adapt to multicultural environments, gained through my study experience abroad. - Wide experience in team work Good sense of organisation: dividing tasks among members Results-oriented. - Efficient worker Objective-focused Good understanding about technical issues Source of ideas, innovations and solutions Fast and self-learning. - Good command of MS Office, LibreOffice, LaTeX and BibTex tools Good command of AutoCAD and OpenSCAD. |

LISP. HTML. XML. Good command of Matlab/Simulink. Wide experience with MS Windows and Linux (Ubuntu mainly). Robotics Operating System (ROS), Movelt!, Point Cloud Library (PCL), OpenCV, Cimg, Magick++, Boost, OpenGL, etc. Very high motivation about technology and research. Other skills and Always trying to learn. competences Trying to apply the knowledge to improve the world. Promoter of Open Source works. Driving license Category B. **Participation in Research Projects DEX-ARM:** Learning and Planning Dexterous Manipulation Techniques for Mobile Manipulators. Principal researcher: Prof. Dr. Luis Enrique Moreno Lorente Carlos III University of Madrid http://roboticslab.uc3m.es/roboticslab/proyecto.php?id proy=49 Duration: 01/06/2011 – currently. **HYPER:** Hybrid Neuroprosthetic and Neurorobotic Devices for Functional Compensation and Rehabilitation of Motor Disorders. Principal researcher: Prof. Dr. M.D. José Luis Pons. Carlos III University of Madrid http://www.car.upm-csic.es/bioingenieria/hyper/ Duration: 01/06/2011 - 30/04/2013 (22 months).

List of Publications

Journals (JCR Indexed):

- J. V. Gómez, D. Álvarez, S. Garrido and L. Moreno, Deterministic, Globally Stable Motion Learning with Fast Marching Square. Submitted to Robotics and Autonomous Systems.
- J. Pardeiro, J. V. Gómez, A. Brunete and F. E. Sandnes, Sunlight-based Positioning Optimization for Sensor Networks using Evolutionary Algorithms. Submitted to Sensor review.
- J.V. Gómez, A. Vale, S. Garrido and L. Moreno, Performance analysis of Fast Marching-based motion planning for autonomous mobile robots in ITER scenarios, Robotics and Autonomous Systems, accepted Sep. 2014.
- A. Valero, J. V. Gómez, S. Garrido and L. Moreno. Fast Marching Methods in Path Planning. IEEE Robotics and Automation Magazine. Vol. 20, No. 4, 2013.
- J. V. Gómez, S. Garrido, L. Moreno and P. U. Lima, General Path Planning Methodology for Leader-Followers based Robot Formations, International Journal of Advanced Robotic Systems, Vol. 10, No. 64, pp. 1 10, 2013.
- J. V. Gómez, A. Lumbier, S. Garrido and L. Moreno. Robot Formations Planning Working Under Uncertainty Conditions Using Fast Marching Square. Robotics and Autonomous Systems, Vol. 61, pp. 137–152, 2013.
- J. V. Gómez, F. E. Sandnes and B. Fernández. Sunlight Intensity Based Global Positioning System for Near-Surface Underwater Sensors . Sensors, Vol. 12, No. 2, pp. 1930 - 1949, 2012.

International Conferences:

- D. Álvarez, J.V. Gómez, S. Garrido and L. Moreno, 3D Robot Formations Planning With Fast Marching Square, IEEE International Conference on Autonomous Robot Systems and Competitions (IEEE ICARSC, ROBOTICA14). Espinho, Portugal. May, 2014.
- J.V. Gómez, N. Mavridis and S. Garrido, Social Path Planning: Generic Human-Robot Interaction Framework for Robotic Navigation Tasks, Cognitive Robotics Systems: Replicating Human Actions and Activities, Workshop of the IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS'13). Tokyo, Japan. November, 2013.
- J. Pardeiro, J.V. Gómez, D. Álvarez and L. Moreno, Learning-based Floor Segmentation and Reconstruction, Iberian Robotics Conference (ROBOT2013). Madrid, Spain. November, 2013.
- J.V. Gómez, S. Garrido and L. Moreno, How to deal with difficulty and uncertainty in the Outdoor Trajectory Planning with Fast Marching, Iberian Robotics Conference (ROBOT2013). Madrid, Spain. November, 2013.
- J.V. Gómez, D. Álvarez, S. Garrido and L. Moreno, Improving Sampling-based Path Planning Methods with Fast Marching, Iberian Robotics Conference (ROBOT2013), Madrid, Spain, November, 2013.
- D. Álvarez, A. Lumbier, J.V. Gómez, S. Garrido and L. Moreno, Precision Grasp Planning with Gifu Hand III based on Fast Marching Square, IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2013. Tokyo, Japan. November, 2013
- A. Tanoto, J. V. Gómez, N. Mavridis, H. Li, U. Rückert, S. Garrido, Teletesting: Remote Path Planning Experimentation and Benchmarking in the TeleWorkbench, IEEE European Conference on Mobile Robots (ECMR 2013). Barcelona, Spain. September, 2013.
- D. Álvarez, A. Lumbier, J.V. Gómez, S. Garrido and L. Moreno, Precision Grasp Planning Based on Fast Marching Square, Mediterranean Conference on Control and Automation, MED 2013, Chania, Greece. June, 2013.
- J.V. Gómez, A. Vale, F. Valente, J. Ferreira, S. Garrido and L. Moreno, Fast Marching in Motion Planning for Rhombic like Vehicles Operating in ITER, IEEE International Conference on Robotics and Automation, ICRA 2013. Karlsruhe, Germany. May, 2013.
- N. Giakoumidis, J.U Bak, J.V. Gómez, A. Llenga and N. Mavridis, Pilot-Scale Development of a UAV-UGV Hybrid with Air-Based UGV Path Planning. International Conference on Frontiers of Technology, FIT 2012. Islamabad, Pakistan. December 2012.
- T. Varvadoukas, E. Giannakidou, J.V. Gómez and N. Mavridis, Indoor Furniture and Room Recognition for a Robot using Internet-derived Models and Object Context, International Conference on Frontiers of Technology, FIT 2012. Islamabad, Pakistan. December 2012.
- J.V. Gómez, D. Álvarez, S. Garrido, L. Moreno, Kinesthetic Teaching via Fast Marching Square, IEEE/RSJ International Conference on Intelligent Robots and Systems, IROS 2012. Vila Moura, Portugal. October. 2012
- J.V. Gómez, F.E. Sandnes and B. Fernández, SGPS Project: Open Source Global Positioning System for Individuals with Reduced Orientation and Navegation Abilites. International Conference on Software Development for Enhacing Accessibility and Fighting Info-exclusion, DSAI 2012. Douro Region. Portugal. July, 2012.
- J. V. Gómez and F. E. Sandnes, RoboGuideDog: Guiding Blind Users Through Physical Environments with Laser Range Scanners. International Conference on Software Development for Enhacing Accessibility and Fighting Info-exclusion, DSAI 2012. Douro Region. Portugal. July, 2012.
- C. Arismendi, J. V. Gómez, S. Garrido and L. Moreno. Adaptive Evolutionary Strategy for Robotic Manipulation. IEEE Conference on Evolving and Adaptive Intelligent Systems, EAIS 2012. Madrid. Spain. May, 2012.

- J. V. Gómez, C. Arismendi, S. Garrido and L. Moreno. On Path Planning: Adaptation to the Environment using Fast Marching. IEEE Conference on Evolving and Adaptive Intelligent Systems, EAIS 2012. Madrid. Spain. May, 2012.
- J. V. Gómez, S. Garrido and L. Moreno. Adaptive Robot Formations Using Fast Marching Square Working Under Uncertainty Conditions. IEEE Workshop on Advanced Robotics and its Social Impacts, ARSO 2011. San Francisco, CA - EEUU. Oct, 2011.

Talks and National Conferences:

- J. V.Gómez, Motion Learning with Fast Marching,ICRA 2013: Workshop on Motion Planning for Mobile Manipulation: State-of-the-art Methods and Tools. Karlsruhe, Germany. May, 2013
- J. Pardeiro, J. V. Gómez, D. Álvarez, L. Moreno, Estimación de Suelos Navegables para Interiores. 11th Workshop Robocity 2030: Robots personales y asistenciales. Madrid, Spain. March, 2013.
- J. V. Gómez, SGPS y la Ciencia Abierta. Linuxec events at Universidad Pontificia Comillas. Madrid, Spain. October 2012.
- J. V. Gómez, Open Science: caso SGPS. Open Source Hardware Convention (OSHWCON 2012). Madrid, Spain. Sep, 2012.
- J. V. Gómez, S. Garrido, L. Moreno, A. Vale, F. Valente, J. Ferreira, Estudio de Funcionamiento del Algoritmo FM2 Aplicado al ITER. 2º Workshop Programa Technofusión. Madrid, Spain. June, 2012.
- S. Garrido, L. Moreno, P. Lima and J. V. Gómez. Robot Formations Motion Planning using Fast Marching. Robot 2011. Sevilla. Spain. Nov, 2011.
- J.V. Gómez, F. E. Sandnes and B. Fernández. Sistema de localización en exteriores abierto y libre basado en propiedades de la luz solar. Open Source Hardware Convention (OSHWCON 2011). Madrid, Spain. Sep, 2011.

Book Chapters:

- S. Garrido, L. Moreno, J.V. Gómez, Motion and Operation Planning of Robotics System: Background and Practical Approaches. Chapter: Motion Planning using Fast Marching Square Method. Springer. To be published
- J. Pardeiro, J. V. Gómez, D. Álvarez, L. Moreno, Robots personales y asistenciales. Chapter: Estimación de Suelos Navegables para Interiores. To be published.
- J.V. Gómez, S.Garrido, L. Moreno, A. Vale, F. Valente, J. Ferreira, 2nd Workshop on Fusion Technologies and the Contribution of TECHNOFUSIÓN. Chapter: Performance Study of the FM2 Planning Method for Remote Handling Operations in ITER. ISBN: 978-84-695-6616. Sección de Publicaciones de la UC3M. 2012.

| | Additional Information |
|----------------------|--|
| Academic experience | FCT (Fundação para a Ciência e a Tecnologia) project reviewer, 2012 call. Thesis advisor of 6 undergraduate student. Ongoing advising: 10 undergraduate students and 2 master students. Committee of 1 undergraduate thesis. ICRA 2015 reviewer. |
| Other experience | Successfully participated in the Google Summer of Code 2014, project: Implementation of C-Forest, Bidirectional FMT and their combination in the Open Motion Planning Library. Spanish Red Cross volunteer (2006 – 2009) in medical emergencies. |
| Courses and Seminars | Neuronal Dynamics by Wulfram Gerstnet (EPFL). Score 85% homework, 51% course (2014). Principles of Written English by Maggie Sokolik (Berkeley). Score 95% (2014). Maximize your mind by Blanca Torres et al. at MiriadaX. Score 100% (2014). Using std::cpp (http://www.arcos.inf.uc3m.es/~cpp-day/) (UC3M) (2013). Seminar on Semantic Perception by Oscar Martínez Mozos (University of Lincoln) (2013). International Research-centered Summer School in Cognitive Systems and Interactive Robotics, Social Media and Digital Preservation: http://irss.iit.demokritos.gr/(NCSR Demokritos) (2013) 3rdIRML Summer School in the New York University of Abu Dhabi (2012). Programming a Robotic Car by Sebastian Thrun (Standford) at Udacity. Score 100% (2012). Artificial Intelligence Class by Sebastian Thrun and Peter Norving (Standford) at Udacity. Score 85.4%. (2011). Machine Learning Class by Andrew Ng (Standford) at Coursera. Score 100%. (2011). Robotics and Transport, Athens Programme at Polytechnic University of Madrid (2011). |
| Awards | Excellence award to the best academic record in the Robotics and Automation Master's program. 2nd best project award at IRSS 2013. Excellence award to the best academic record in Madrid in the pre-university technical studies. |
| Memberships | IEEE student member (since 2011). Comité Español de Automática, CEA (since 2011). |
| | Annexes |
| | Personal website (with more detailed information): http://www.javiervgomez.com YouTube Channel: http://www.youtube.com/user/ingjotauve Personal Github repository: https://github.com/jygomez Biicode users (http://www.biicode.com/): jotauve , jygomez Google scholar profile: <a href="http://scholar.google.com/citations?user=uENYWfYAAAAJ Founder of the SGPS project open source community: http://sgpsproject.sourcefoge.net/wiki |